

COA DEVELOPMENT

EWTG



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LEARNING OBJECTIVES



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TLO: Without the aid of references, correctly develop COAs within the framework of a selected exercise scenario per MCWP 5-1.

ELOs: Without the aid of references:

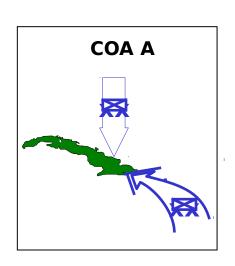
- 1. Identify the purpose of the COA development process.
- 2. Select from a list the required inputs for proper COA development.
- 3. Select from a list the validation criteria for a properly developed COA.
- 4. Select from a list the required outputs for proper COA development.

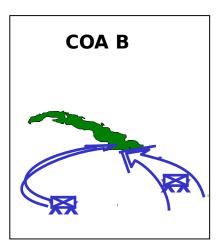
PURPOSE

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 To develop options for the commander that are truly different and that achieve the commander's intent and comply with the commander's planning guidance issued at the beginning of COA Development.







COA DEVELOPMENT



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Process:

- Develop initial COAs
- Commander's input
- COA refinement
 - Graphic & Narrative
- COA criteria
 - Suitable
 - Distinguishable
 - Feasible
 - Acceptable
 - Complete

Input:

- Mission Statement
- Refined intent
- Planning guidance

Output:

- Designated COAs for war game
- War game guidance
- Evaluation criteria

IPB

TTP FOR COA DEVELOPMENT



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COA Development

- Review Enemy Lay-Down / Use IPB Products / Use Red Cell
- Review Commander's Operational Design / CBAE / Guidance
- Display Friendly Forces
- Assess Relative Combat Power
- Review COGs/CVs
- Review Essential Tasks
- Develop Initial COAs in Concert With Cmdr's Intent and Planning Guidance:
 - Forms of Maneuver
- "Rough Cut" COA brief to Battle staff
- Develop COAs
 - Array your Forces
 - Delineate Battlespace
 - Synchronize Actions/Matrix
- Develop Supporting Concepts Intel, Fires, & Log
- Complete COA Narrative/Sketch



ORIENT ON THE ENEMY

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"We should see the enemy as he sees himself."

MCDP - 1

- Capabilities
 - strengths, weaknesses
- Doctrine
- Tactics, Techniques, and Procedures
- Current Intelligence

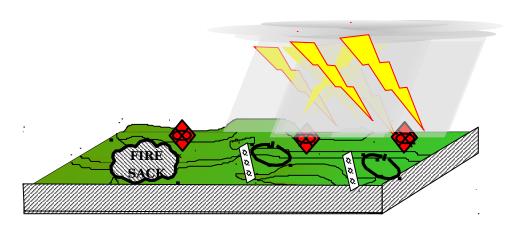
INTELLIGENCE PREPARATION OF THE BATTLESPACE



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IPB is a systematic & continuous approanalyzing the enemy, weather, & terrai specific geographic area.

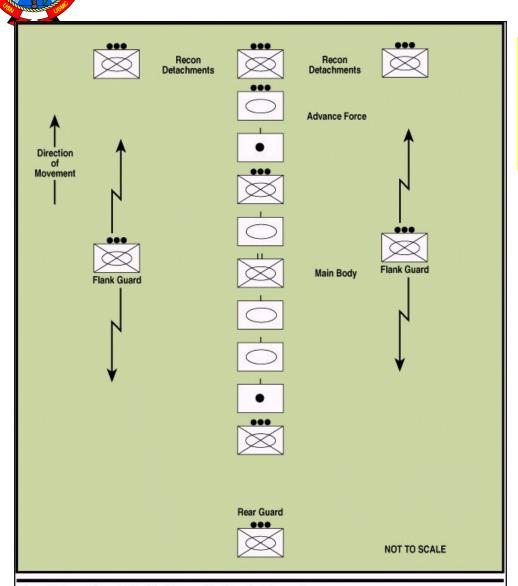
-It takes a large amount of data and prit in a graphic format.



THREAT DOCTRINE







HIGH-VALUE TARGET (HVT)

Assets that the enemy commander requires for the successful completion of a specific course of action

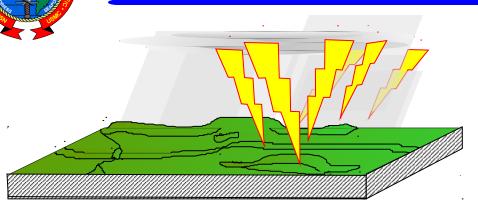
Artiller

Armor

Tactics & Options

Defend & Counterattac Attack & Pursue



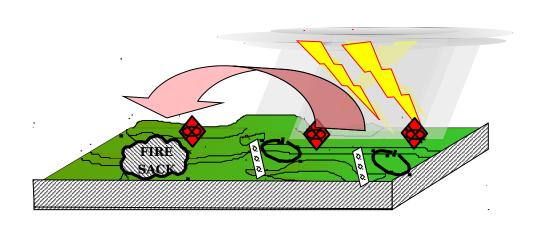


Environment (Weather, terrain, population, (Steps 1 & 2)





Threat Doctrine (Step 3)



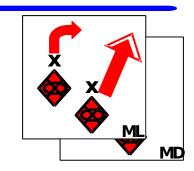


Threat COAs (Step 4) 11

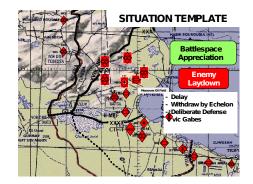
UPDATE INTEL and IPB



- Intelligence Update--
 - Refined and Prioritized Threat COAs
 - Enemy Most Likely and Most Dangerous COAs
 - High Value Target List



Situation Template



- Initial Event Template









REVIEW APPROVED MISSION STATEMENT

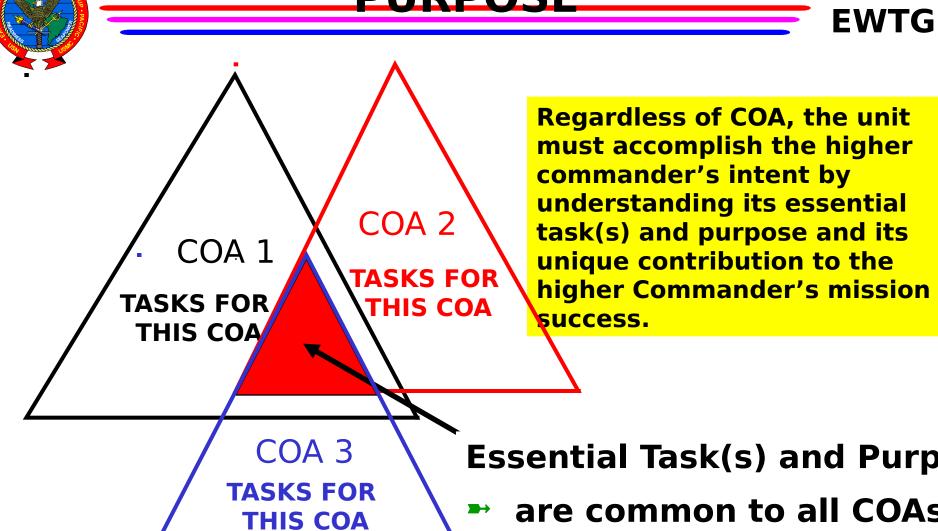


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On order, I MEF attacks in zone to defeat the 1st tactical echelon in order to prevent the 1st tactical echelon from attacking the JTF main effort's eastern flank.

ESSENTIAL TASK & PURPOSE

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ENEMY CENTER OF GRAVITY

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COG analysis, based on expected enemy COA, helps the commander orient on the enemy. It provides a framework from which to identify enemy HVTs and subsequent HPTs

CENTER OF GRAVITY CRITICAL VOLNERABILITIES

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Mobile Reserves C2 Vulnerable To Attack And Neutralization

Inadequate Air Defense

Logistics

Wireless Communications System Vulnerable To Electronic Attack And Physical Destruction

HIGH-VALUE TARGET (HVT)

Assets that the enemy commander requires for the successful completion of a specific course of action

HIGH-PAYOFF TARGET (HPT)

A target whose loss to the enemy will contribute to the success of the friendly

Some become HPTs of action

4. List Critical Vulnerabilities Friendly/Enemy Center of i.e. A critical requirement that is, or 3. List Critical Requirements can be made vulnerable to enemy action Grandty's my most significant strength that is i.e. Essential conditions, resources (What CR can the enemy find, target, a and means that allow our capability to minate?) key to mission accomplishment? succeed. (What must the enemy 2. List Critical Capabilities nherent, eliminate to affect my capability?) essential capabilities through which our COG exercises its power. (What enables **COMMAND & CONTROL** the COG to function as the COG?) SUPPORT (CS) DATA LINKS **FACILITIES: CONCENTRATED List Center of Gravity** A/C, C2 SITES, PERSONNEL & i.e. Actual people or organizatio ABILITY TO COMMAND & **BULK FUEL STORAGE SITES** that we need to make decisions, **CONTROL** (TACC/TAOC) FIREPOWER COMMAND& **CONTROL SUPPORT (C2S)** LACK OF SUFFICIENT FORCE fight battles or produce goods and **DATA LINKS** PROTECTION FOR C2 SITES & services. (What is my most **ABILITY TO FOCUS** PERSONNEL IN HOST significant strength without w_{hi} FIREPOWER (TACC/TAOC) **NATION** Cannot accomplish my **ORDNANCE SHORTAGE OF TRAINED** mission?) **ABILITY TO MANEUVER PILOTS AND GROUND CREW** THROUGHOUT THE **ACE BATTLESPACE** TRANSPORT OF FUEL TRANSPORT: AND ORDNANCE **HEAVY RELIANCE ON ABILITY TO IMPLEMENT HNS CARRIERS** INTEGRATED AIR DEFENSE **FIXED/ROTARY WING** (TAOC) **FACILITIES** C2S: TSC-85 **TSC-93 SITES** UNPROTECTED **HIGH-VALUE TARGET (HVT) HIGH-PAYOFF TARGET (HPT) Assets that the enemy** A target whose loss to the commander requires for the enemy will contribute to the successful completion of a

specific course of action

success of the friendly

course of action

FRIENDLY CENTER OF GRAVITY

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CENTER OF GRAVITY

Combined Arms and Tactical Mobility

CRITICAL VULNERABILITIES

Heavily dependent on fuel

SPODs vulnerable

Command and Control

RELATIVE COMBAT POWER

504

Macro Element of Combat Power: Equipment and

144

ASSESSMENT

EWTG

	Organization	S		
EQUIPMEN	<u>IT</u>	MEL	ENEMY	KEMAKKS
TANKS		116	143	+ QUAL/READINESS/TGT SYSTEM
ARTY		108	72	+ ACCURACY/MASS/AMMO/QUANTITY
240MM MO	RT	0	24	- QUANTITY

+ QUAL/READINESS/TGT SYSTEM

→ OHAL/DEADINECS/TCT SYSTEM

How to allocate existing resources

Helps To Determine:

UNITS

TANK BNC

ARMORED INF VEH

INF BNS 18 9 +	EADINESS/IGT STSTEM
MOBILITY 10 9 T	- QUAL/READINESS/QUANTITY &

AIRCRAFT

F/A-18	36	 What type of operation possible
AV-8B	32	 How and where the enemy may be vulne
AH-1W	36	 What additional resources may be required

IY

RELATIVE COMBAT POWER

ASSESSMENT

EWTG

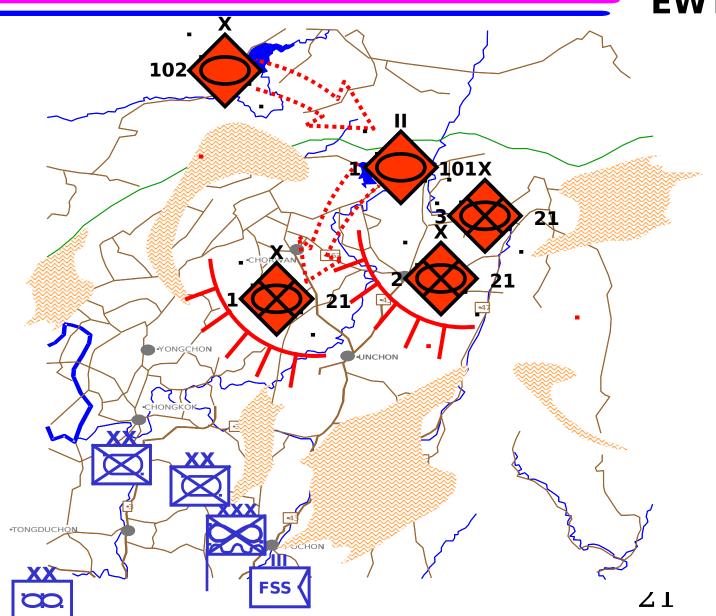
LEADERSHIP	GOOD	** Senior officers well educated and formally trained in the operational art
		** Experienced junior officers and NCOs
MORALE	HIGH	**Excellent cohesion and esprit ** Well equipped
		** Troops have demonstrated discipline in recent engagements
TRAINING	MARGINA L	** Usually fights as independent brigades. Not experienced in conducting and controlling multi-brigade combined arms operations

INTANGIBLE FACTORS -- What does it all mean?

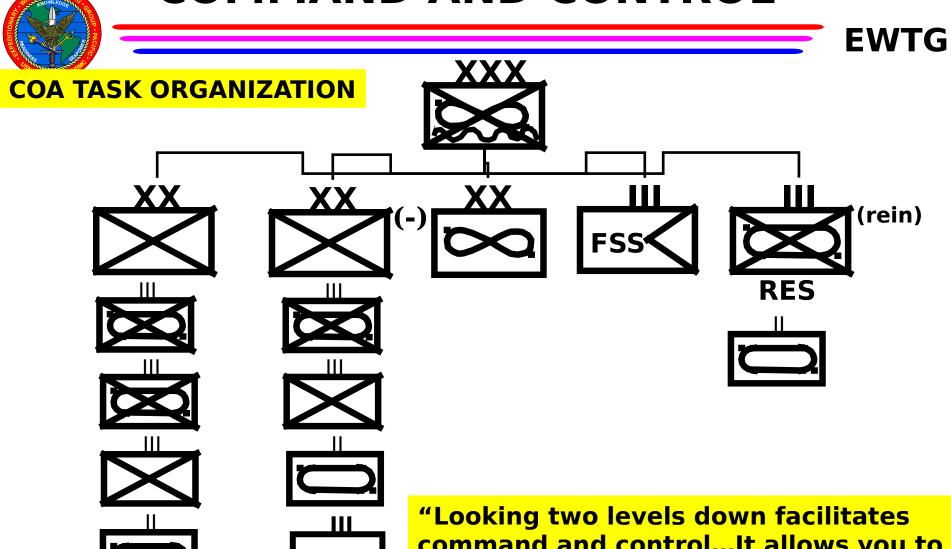


DISPLAY FRIENDLY FORCES

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COMMAND AND CONTROL



command and control...It allows you to task organize and resource subordinates for mission success."

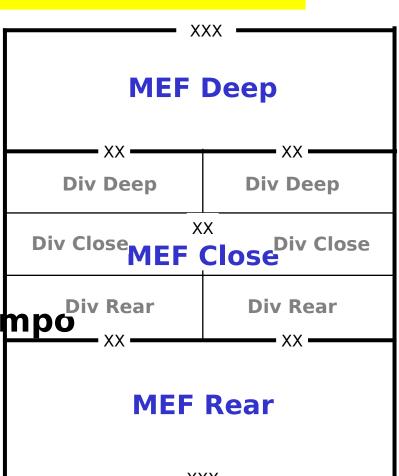
Gen. W.E.

CONTROL MEASURES

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Control Measures facilitate Command and Control

- Delineate Responsibilities
- Impose Restrictions
- Provide Coordination
- Decentralize Execution
- Facilitate Operations and Tempo

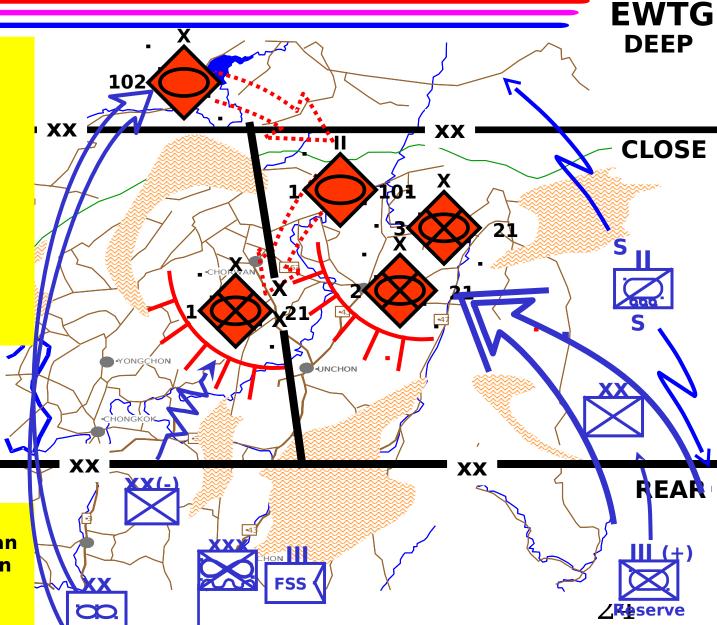


Developed with a COA and tested in the War Game 23

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CONTROL MEASURES

- Boundaries
- Time of Attack
- Axis of Advance
- Direction of Attack
- Limit of Advance
- Fire Support Coordination Measures



Assign subordinates
Battlespace so they can
accomplish the mission
and protect the force

MCDP 1-0

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COA CRITERIA

EWTG

- Suitability
 - Accomplishes the Mission
 - Complies with Commander's Guidance
- Feasibility
 - Time, Space, Resource Constraints
- Acceptability
 - Creates Advantage with Reasonable Cost in
- Besources Distinguishability
 - Forms of Maneuver
 - Main Effort
 - Sequential vs Simultaneous
- Completeness
 - Accomplishes all Tasks
 - Accomplishes the Purpose

DEVELOP SUPPORTING CONCEPTS



EWTG

cheme of Maneuver is not enough for a complete COA

Concept of Operations

- Concept of Fires
- Concept of Intelligence
- Concept of Support

Do not develop supporting concepts in a vacuum. Integrate other functions (IO) as well.



CONCEPT OF INTELLIGENCE

EWTG

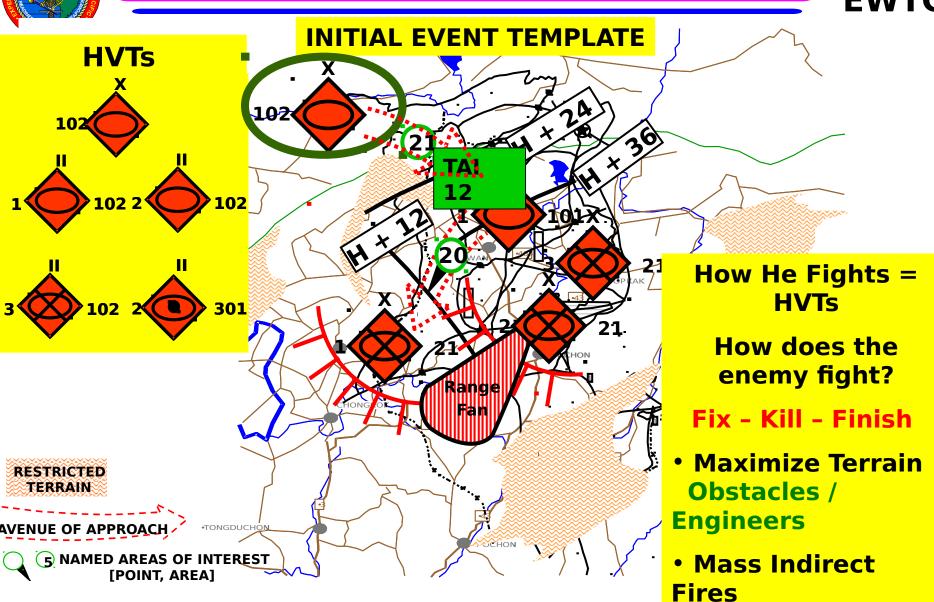
- COLLECTION PLAN
- PIRs
- R&S PLAN
- COUNTER-RECON PLAN

THE TRAINING TO THE TOTAL THE TOTAL

CONCEPT OF INTELLIGENCE

EWTG

Unite / Accete



CONCEPT OF FIRES



Review Higher Targeting Priorities

Convert HVTs to HPTs:

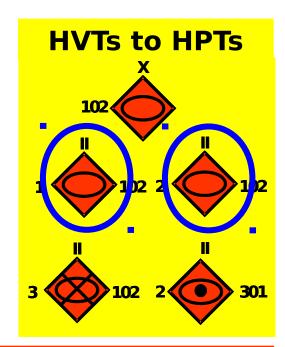
Can collection assets acquire the HVT?
Can the HVT be successfully attacked?

Is the attack of the HVT necessary to the success of the

friendly COA?

Is the HVT a critical node?

- ID HPTs within those formations / facilities
- Develop conditions/MOE (success)
- Allocate / request assets and plan to detect
- Integrate FS events or actions with maneuver planning and Intel



EFFECTS OF FIRES



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What fires can conceptually do for you.

- <u>Disrupt</u> Break apart, disturb or interrupt an enemy function.
- <u>Delay</u> Slow the arrival of a unit (formation) on the battlefield.
- <u>Limit</u> Restrict where the enemy can pursue a COA.
- <u>Divert</u> Tie up critical enemy resources.
- Destroy
- Neutralize
- Suppress

The intensity of fires required to achieve the desired effect specified by Disrupt, Delay,

Limit, or Divert are <u>tested and refined</u> <u>and refined</u>

TRANSPORTER TO SERVICE OF TRANSPORTER TO SER

CONCEPT OF SUPPORT

EWTG

- Capabilities vs. Requirements
- Phasing and shifting of priorities
- Priority of Effort / Priority of Work
- Tasks, Responsibilities, and Support Relationships
- Organization on the ground
- Potential displacements
- Planned operational pauses

OTHER CONCEPTS



EWTG

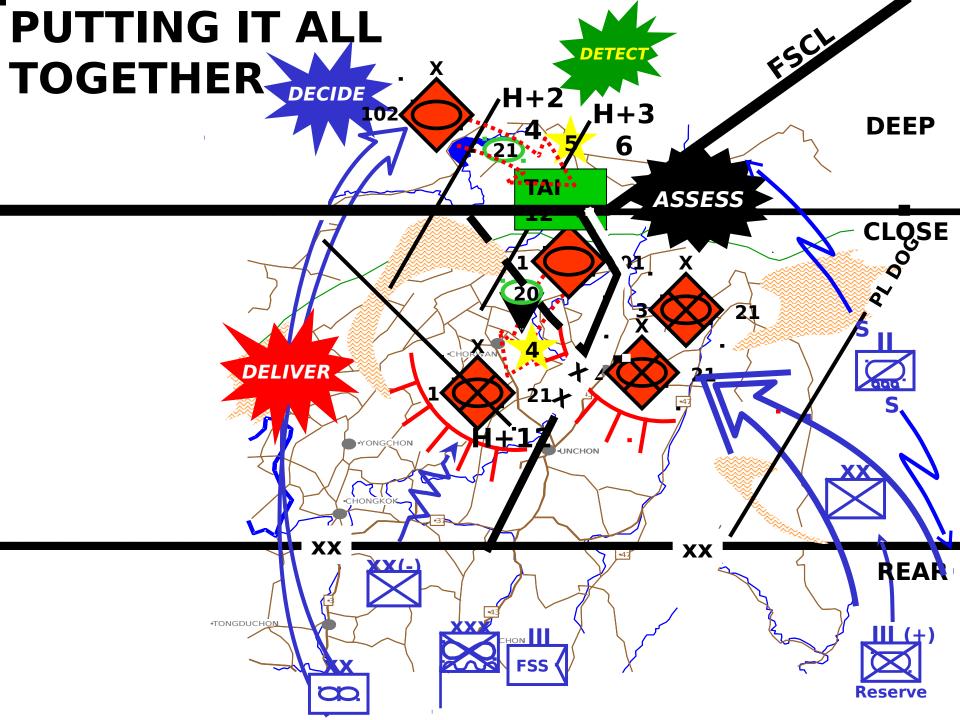
INFORMATION OPERATIONS

Military Deception

OBJECTIVE: Enemy commander perceives the supporting attack to be the Main Effort and commits the Reserve Armored Battalion against the supporting attack

TARGET: 1st Tactical Echelon Commander

STORY: Main attack will occur in the West and the ME is a follow and support force

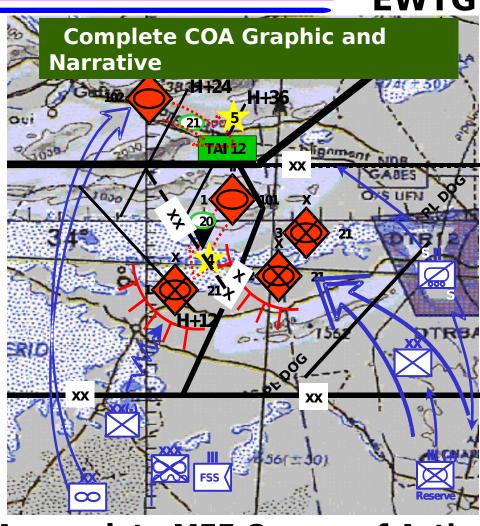


RECORDING and ARTICULATING a COA

EWTG

A Complete COA includes:

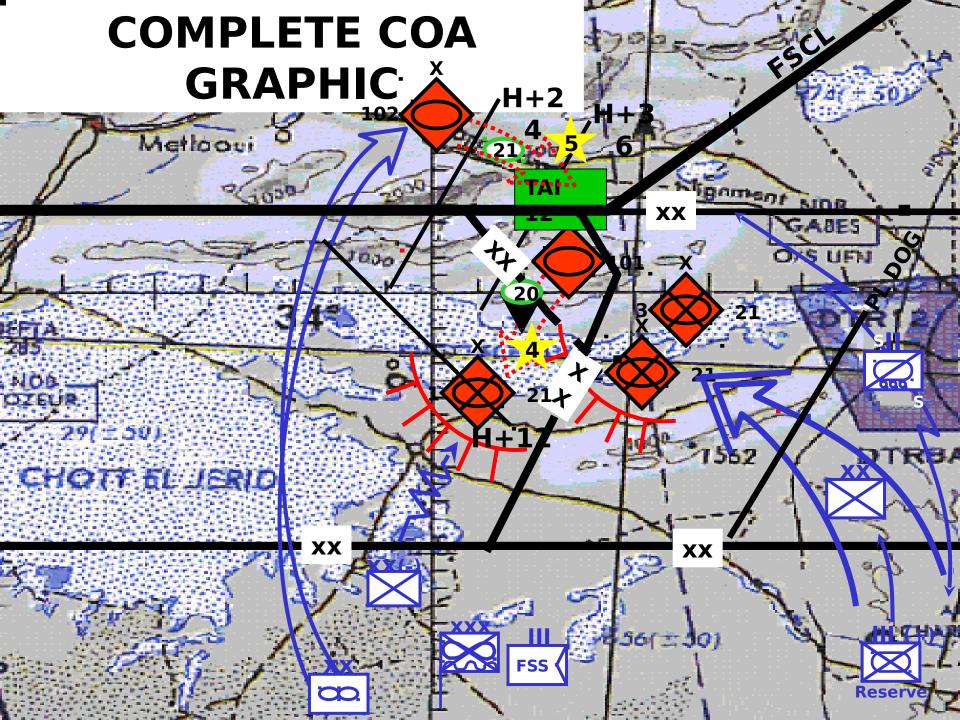
- Who: Task Organization
- What: Tasks for each unit
- Where: Delineation of Battlespace
- When: Time for designated
- activities to
 - occur
- How: Method
- Why: Purpose
 - onigie pattie -- peep, ciose, and Poor One
 - **Rear Ops**
- Main Effort
 - Supporting Effort / Attack
- Reserves
- Security
- Sustainment
- Control Measures
- Ground/Air Axis of Advance
- HQ Locations
- Assembly Areas
- ACE Bed-down sites and CSSAs
- Reconnaissance and Security Operations



A complete MEF Course of Action

Not just a GCE CONOPS

34



COMPLETE COA NARRATIVE

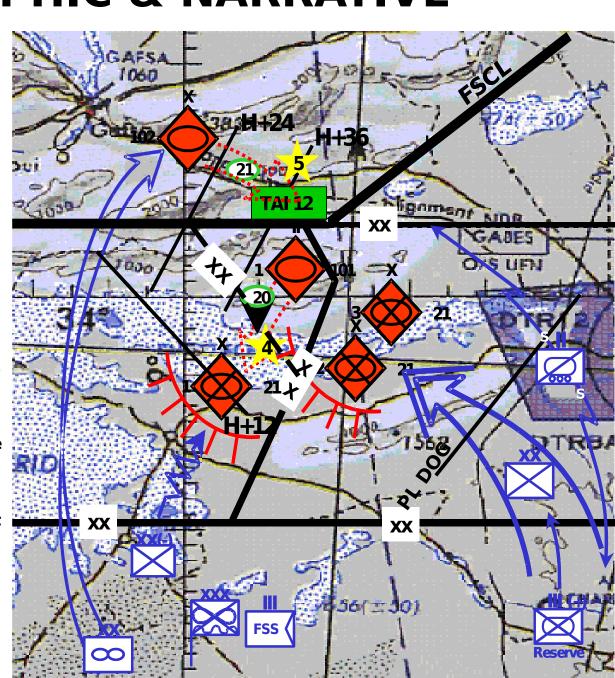


EWTG

On order the MEF attacks in zone to defeat the first echelon. Close Operations—In the west, a division (-) conducts a supporting attack to fix the 1-21st Mechanized Brigade and cause the commitment of the 1-101st Armor Battalion, the enemy reserve. To support this attack our deception effort will focus on portraying this supporting attack as our main effort. Upon the commitment of the 1-101st Armor Battalion, our *main effort*, consisting of a division, conducts a flanking attack through the gap between the 2-21st and 3-21st Mechanized Infantry brigades and defeats the 1-101st Armor Battalion. Fires will disrupt any movement of the 2-21st and 3-21st Mechanized Infantry Brigades and the enemy division's command and control. The reserve is a mechanized regiment (rein) that follows the main effort and is prepared to defeat a flank counterattack from either the 2-21st or 3-21st Mechanized Infantry Brigade. If not committed against the two mechanized brigades, O/O it will defeat the enemy operational reserve, the 102nd Armored Brigade. Deep **Operations—The Wing disrupts the 102nd Armored Brigade from** reinforcing the first echelon. Rear Operations—FSSG conducts CSS to support the main effort and conducts refuel on the move

COA GRAPHIC & NARRATIVE

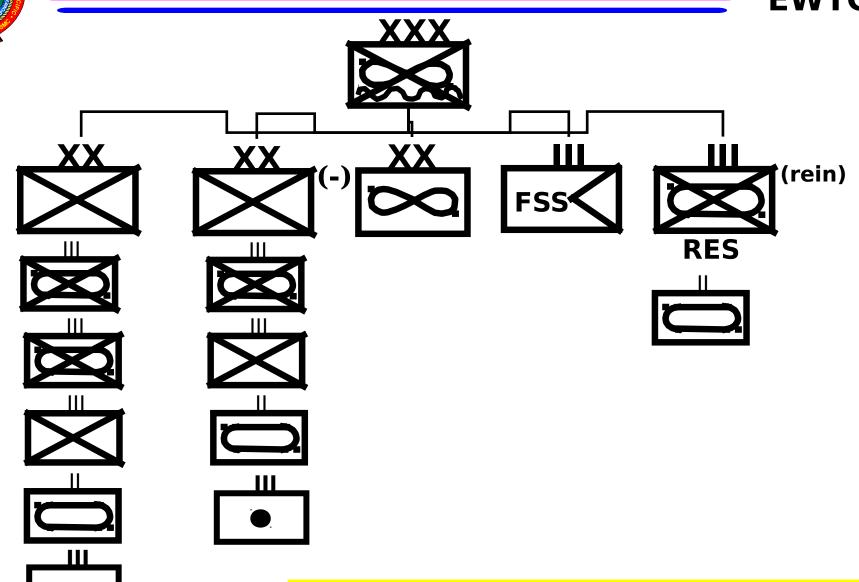
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COA TASK ORGANIZATION



EWTG



Brief the Task Organization for each Co



COA DEVELOPMENT BRIEF

EWTG

- Updated Intel Estimate
- Enemy Most Likely and Most Dangerous COAs
- Mission Statement
- HHQ Commander's Intent
- Own Commander's Intent
- Commander's Planning Guidance
- Relative Combat Power

Assessment

- COA Task Organization
- COA(s) Graphic and Narrative
- Rationale for COA(s)
- Updated Facts and Assumptions

SYNCHRONIZATION MATRIX

EWTG

Capture Critical Events for Wargaming

•					
TIME/EVENT		Pre H-Hr	H to H + 18	H + 18 to H +	36
Enemy Action		En in Position Def Fi	x & defeat Sptng Atk -Rein with 101 Armor E	h+22 IDs ME / 102 Armd Bde Ro	in
DECISION PT.		Confirm EN COA	DP #4 - 101 Armor Bn Res Comm	nit s DP # 5 102 Armd Bde cor	nmi
	DEEP		ACE disrupts 102 Arm Bde	ACE SE disrupts 102 Arm	ı B d
	CLOSE	Counter Recon Sec A	କ୍ଷି Div (-) fixes 1st Bde ME moves H	MB Div attacks 2 & 3 Bd	е
MANEUVER	RESERVE			Follows ME O/O defeat 102	d B
MANEUVER	REAR				
	MOBILITY		MSR'S for Support to Main Effort		
	C-MOBILITY				
			Recon in Zone TAI 12;NAI 21		
INTELLIGENCE	NAI/TAI	DP #4 & 5 Active	NAI #20 - 101 Armor Bn moving	NAI #21 - 102d Bde mov	/ing
	LETHAL		ACE:disrupt 102 ^p / Disrupt 301/302	ADtyrapt 102 Arm Bde &	ιAr
FIRES	NON-LETHAL		EW 101 Arm Bn to commit agair	nst SE	
LOGISTICS	SUSTAINMENT	Est supply stockages	MCSSD'S with RCTs; estb FARP per order		
LOGISTICS	TRANSPORT	Cndt Route Recon			
COMMAND		Prep to shift ME	Prepare to Shift Main Effort		
& CONTROL	10	Deception Execution	Disrupt 2d & 3d Mech Bdes C2 Nod	lestisrupt C2 Bn Level and a	bov
FORCE		HVA Protected	C-Recon in Zone C-Terrorism	Screen E. Flank	
PROTECTION	NBC/AIR DEF	MOPP - 0			

RECOMMENDATIONS FOR WARGAMING

EWTG

- Wargaming Guidance:
 - List of Friendly COAs to be wargamed against spec threat COAs
 - List of Critical Events (e.g. shifting the M.E.)
 - Level of Detail (e.g. two levels down)

Evaluation Criteria:

- Defeat of Threat COAs
- Casualties
- Speed
- Success despite terrain or weather restrictions
- Does the COA accomplish all identified tasks
- Other